

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Mori et al.

U.S.S.N.: Not Yet Assigned

Art Unit: Not Yet Assigned

FILED: Herewith

Examiner: Not Yet Assigned

FOR: NICOTIANAMINE SYNTHASE AND GENE ENCODING THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

III. CONCISE EXPLANATION OF THE RELEVANCE

All of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

Docket No.: 55107

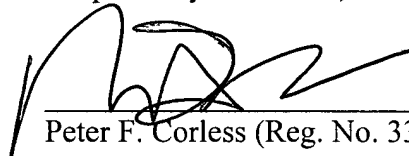
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**FEES**IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)

- a. ☒ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☐ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,



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PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY DOCKET NO.	SERIAL NO.
	55107	Not Yet Assigned
	APPLICANT(S): Mori et al.	
	FILING DATE: Herewith	ART UNIT: Not Yet Assigned

## UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPR

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

AA	Plant and Soil, Volume 165, Number 2, issued 1994, Kyoko Higuchi et al.; "Purification and characterization of nicotianamine synthase from Fe-deficient barley roots, pages 173-179.✓
AB	Plant Physiology, Volume 199, Number 2, issued February 1999, Kyoko Higuchi et al., "Cloning of Nicotianamine Synthase Genes, Novel Genes Involved in the Biosynthesis of Phytosiderophores, pages 471-479. ✓
AC	Database GenBank, Accession No. AB019525, February 11, 1999, Mori S. "Hordeum vulgare hvnas7 mRNA for nicotianamine synthase 7, complete cds" ✓
AD	Database GenBank, Accession No. AB021746, March 30, 1999, Mori S. "Oryza sativa osnas1 mRNA for nicotianamine synthase 1, complete cds". ✓
AF	Database GenBank, Accession No. AB0211934, February 11, 1999, Suzuki K. "Arabidopsis thaliana gene for nicotianamine synthase, complete cds." ✓

Inventor:

Date: